Anagrafica web

Generated by Doxygen 1.8.13

Contents

| 1 | REA | .DME | 1 |
|---|------|--|----|
| 2 | Nam | nespace Index | 3 |
| | 2.1 | Namespace List | 3 |
| 3 | Clas | ss Index | 5 |
| | 3.1 | Class List | 5 |
| 4 | Nam | nespace Documentation | 7 |
| | 4.1 | JAMA Namespace Reference | 7 |
| | | 4.1.1 Detailed Description | 7 |
| | 4.2 | PHPExcel Namespace Reference | 9 |
| | | 4.2.1 Detailed Description | 9 |
| | 4.3 | PHPExcel_CachedObjectStorage Namespace Reference | 9 |
| | | 4.3.1 Detailed Description | 9 |
| | 4.4 | PHPExcel_Calculation Namespace Reference | 9 |
| | | 4.4.1 Detailed Description | 9 |
| | 4.5 | PHPExcel_Cell Namespace Reference | 10 |
| | | 4.5.1 Detailed Description | 10 |
| | 4.6 | PHPExcel_Chart Namespace Reference | 10 |
| | | 4.6.1 Detailed Description | 10 |
| | 4.7 | PHPExcel_Chart_Renderer Namespace Reference | 10 |
| | | 4.7.1 Detailed Description | 10 |
| | 4.8 | PHPExcel_Reader Namespace Reference | 11 |
| | | 4.8.1 Detailed Description | 11 |

ii CONTENTS

| 4.10 | 4.9.1 Detailed Description PHPExcel_Reader_Excel5 Namespace Reference 4.10.1 Detailed Description | 11 11 |
|------|---|----------|
| 4.10 | | 11 |
| | 4.10.1 Detailed Description | |
| | | 11 |
| 4.11 | PHPExcel_RichText Namespace Reference | 12 |
| | 4.11.1 Detailed Description | 12 |
| 4.12 | PHPExcel_Settings Namespace Reference | 12 |
| | 4.12.1 Detailed Description | 12 |
| 4.13 | PHPExcel_Shared Namespace Reference | 12 |
| | 4.13.1 Detailed Description | 12 |
| 4.14 | PHPExcel_Shared_Escher Namespace Reference | 13 |
| | 4.14.1 Detailed Description | 13 |
| 4.15 | PHPExcel_Shared_OLE Namespace Reference | 13 |
| | 4.15.1 Detailed Description | 13 |
| 4.16 | PHPExcel_Shared_Trend Namespace Reference | 13 |
| | 4.16.1 Detailed Description | 13 |
| 4.17 | PHPExcel_Shared_ZipArchive Namespace Reference | 14 |
| | 4.17.1 Detailed Description | 14 |
| 4.18 | PHPExcel_Style Namespace Reference | 14 |
| | 4.18.1 Detailed Description | 14 |
| 4.19 | PHPExcel_Worksheet Namespace Reference | 14 |
| | 4.19.1 Detailed Description | 14 |
| 4.20 | PHPExcel_Worksheet_Drawing Namespace Reference | 15 |
| | 4.20.1 Detailed Description | 15 |
| 4.21 | PHPExcel_Writer Namespace Reference | 15 |
| | 4.21.1 Detailed Description | 15 |
| 4.22 | PHPExcel_Writer_2007 Namespace Reference | 15 |
| | 4.22.1 Detailed Description | 15 |
| 4.23 | PHPExcel_Writer_CSV Namespace Reference | 16 |
| | 4.23.1 Detailed Description | 16 |
| 4.24 | PHPExcel_Writer_Excel2007 Namespace Reference | 16 |
| | 4.24.1 Detailed Description | 16 |
| 4.25 | PHPExcel_Writer_Excel5 Namespace Reference | 16 |
| | 4.25.1 Detailed Description | 16 |
| 4.26 | PHPExcel_Writer_HTML Namespace Reference | 17 |
| | 4.26.1 Detailed Description | 17 |
| 4.27 | PHPExcel_Writer_PDF Namespace Reference | 17 |
| | 4.27.1 Detailed Description | 17 |

CONTENTS

| 5 | Clas | s Docu | mentation | | 19 |
|---|------|---------|-------------|-------------------------|----|
| | 5.1 | DBCor | nnection C | lass Reference | 19 |
| | | 5.1.1 | Detailed | Description | 19 |
| | | 5.1.2 | Member | Function Documentation | 19 |
| | | | 5.1.2.1 | close() | 19 |
| | | | 5.1.2.2 | getConnectionObject() | 19 |
| | 5.2 | DBInte | rface Clas | s Reference | 20 |
| | | 5.2.1 | Detailed | Description | 20 |
| | | 5.2.2 | Member | Function Documentation | 20 |
| | | | 5.2.2.1 | delete() | 20 |
| | | | 5.2.2.2 | executeQuery() | 20 |
| | | | 5.2.2.3 | insert() | 21 |
| | | | 5.2.2.4 | select() | 21 |
| | | | 5.2.2.5 | update() | 22 |
| | 5.3 | if Cate | gory Refer | ence | 22 |
| | | 5.3.1 | Detailed | Description | 22 |
| | 5.4 | PHPE | ccel_Settin | gs Class Reference | 23 |
| | | 5.4.1 | Detailed | Description | 23 |
| | | 5.4.2 | Member | Function Documentation | 24 |
| | | | 5.4.2.1 | getCacheStorageClass() | 24 |
| | | | 5.4.2.2 | getCacheStorageMethod() | 24 |
| | | | 5.4.2.3 | getChartRendererName() | 24 |
| | | | 5.4.2.4 | getChartRendererPath() | 24 |
| | | | 5.4.2.5 | getPdfRendererName() | 25 |
| | | | 5.4.2.6 | getPdfRendererPath() | 25 |
| | | | 5.4.2.7 | getZipClass() | 25 |
| | | | 5.4.2.8 | setCacheStorageMethod() | 25 |
| | | | 5.4.2.9 | setChartRenderer() | 26 |
| | | | 5.4.2.10 | setChartRendererName() | 26 |
| | | | 5.4.2.11 | setChartRendererPath() | 27 |

iv CONTENTS

| | | 5.4.2.12 | setLocale() | 27 |
|-----|-------|------------|---------------------------------|----|
| | | 5.4.2.13 | setPdfRenderer() | 27 |
| | | 5.4.2.14 | setPdfRendererName() | 28 |
| | | 5.4.2.15 | setPdfRendererPath() | 28 |
| | | 5.4.2.16 | setZipClass() | 28 |
| | 5.4.3 | Member | Data Documentation | 29 |
| | | 5.4.3.1 | CHART_RENDERER_JPGRAPH | 29 |
| | | 5.4.3.2 | PCLZIP | 29 |
| | | 5.4.3.3 | PDF_RENDERER_TCPDF | 29 |
| 5.5 | PHPE | ccel_Share | ed_JAMA_Matrix Class Reference | 30 |
| | 5.5.1 | Detailed | Description | 30 |
| | 5.5.2 | Construc | etor & Destructor Documentation | 30 |
| | | 5.5.2.1 | construct() | 30 |
| | 5.5.3 | Member | Function Documentation | 31 |
| | | 5.5.3.1 | arrayLeftDivide() | 31 |
| | | 5.5.3.2 | arrayLeftDivideEquals() | 31 |
| | | 5.5.3.3 | arrayRightDivide() | 31 |
| | | 5.5.3.4 | arrayRightDivideEquals() | 32 |
| | | 5.5.3.5 | arrayTimes() | 32 |
| | | 5.5.3.6 | arrayTimesEquals() | 33 |
| | | 5.5.3.7 | checkMatrixDimensions() | 33 |
| | | 5.5.3.8 | concat() | 33 |
| | | 5.5.3.9 | det() | 34 |
| | | 5.5.3.10 | diagonal() | 34 |
| | | 5.5.3.11 | get() | 34 |
| | | 5.5.3.12 | getArray() | 35 |
| | | 5.5.3.13 | getColumnDimension() | 35 |
| | | 5.5.3.14 | getMatrix() | 35 |
| | | 5.5.3.15 | getMatrixByCol() | 36 |
| | | 5.5.3.16 | getMatrixByRow() | 36 |

CONTENTS

| Index | | | 43 |
|-------|----------|-------------------|----|
| | 5.5.3.30 | uminus() | 41 |
| | 5.5.3.29 | transpose() | 41 |
| | 5.5.3.28 | trace() | 40 |
| | 5.5.3.27 | times() | 40 |
| | 5.5.3.26 | solve() | 40 |
| | 5.5.3.25 | set() | 39 |
| | 5.5.3.24 | power() | 39 |
| | 5.5.3.23 | plusEquals() | 39 |
| | 5.5.3.22 | plus() | 38 |
| | 5.5.3.21 | minusEquals() | 38 |
| | 5.5.3.20 | minus() | 37 |
| | 5.5.3.19 | inverse() | 37 |
| | 5.5.3.18 | identity() | 37 |
| | 5.5.3.17 | getRowDimension() | 37 |

Chapter 1

README

This README would normally document whatever steps are necessary to get your application up and running.

What is this repository for?

- Quick summary
- Version
- Learn Markdown

How do I get set up?

- · Summary of set up
- Configuration
- Dependencies
- · Database configuration
- · How to run tests
- Deployment instructions

Contribution guidelines

- · Writing tests
- · Code review
- · Other guidelines

Who do I talk to?

- Repo owner or admin
- · Other community or team contact

2 README

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

| JAMA | 7 |
|------------------------------|---|
| PHPExcel | 9 |
| PHPExcel_CachedObjectStorage | 9 |
| PHPExcel_Calculation | 9 |
| PHPExcel_Cell 1 | 0 |
| PHPExcel_Chart | 0 |
| PHPExcel_Chart_Renderer 1 | 0 |
| PHPExcel_Reader | 1 |
| PHPExcel_Reader_Excel2007 | 1 |
| PHPExcel_Reader_Excel5 | 1 |
| PHPExcel_RichText | 2 |
| PHPExcel_Settings | 2 |
| PHPExcel_Shared | 2 |
| PHPExcel_Shared_Escher | 3 |
| PHPExcel_Shared_OLE | 3 |
| PHPExcel_Shared_Trend | 3 |
| PHPExcel_Shared_ZipArchive | 4 |
| PHPExcel_Style | 4 |
| PHPExcel_Worksheet | 4 |
| PHPExcel_Worksheet_Drawing | 5 |
| PHPExcel_Writer | 5 |
| PHPExcel_Writer_2007 | 5 |
| PHPExcel_Writer_CSV | 6 |
| PHPExcel_Writer_Excel2007 | 6 |
| PHPExcel_Writer_Excel5 | 6 |
| PHPExcel_Writer_HTML | 7 |
| PHPExcel Writer PDF | 7 |

Namespace Index

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

| DBConnection | | | | | | | | | | | | | | | | | | | | | | - 19 |
|----------------|------|----|----|---|------|-----|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|------|
| DBInterface . | | | | | | | | | | | | | | | | | | | | | | 20 |
| if \ldots | | | | | | | | | | | | | | | | | | | | | | |
| PHPExcel_Setti | ings | | | | | | | | | | | | | | | | | | | | | 23 |
| PHPExcel Shar | red | JA | MA | N | latr | χir | | | | | | | | | | | | | | | | 30 |

6 Class Index

Chapter 4

Namespace Documentation

4.1 JAMA Namespace Reference

4.1.1 Detailed Description

Cholesky decomposition class

For a symmetric, positive definite matrix A, the Cholesky decomposition is an lower triangular matrix L so that A = L*L'.

If the matrix is not symmetric or positive definite, the constructor returns a partial decomposition and sets an internal flag that may be queried by the isSPD() method.

Author

Paul Meagher Michael Bommarito

Version

1.2

Class to obtain eigenvalues and eigenvectors of a real matrix.

If A is symmetric, then A = V*D*V' where the eigenvalue matrix D is diagonal and the eigenvector matrix V is orthogonal (i.e. A = V.times(D.times(V.transpose())) and V.times(V.transpose()) equals the identity matrix).

If A is not symmetric, then the eigenvalue matrix D is block diagonal with the real eigenvalues in 1-by-1 blocks and any complex eigenvalues, lambda + i*mu, in 2-by-2 blocks, [lambda, mu; -mu, lambda]. The columns of V represent the eigenvectors in the sense that A*V = V*D, i.e. A.times(V) equals V.times(D). The matrix V may be badly conditioned, or even singular, so the validity of the equation A = V*D*inverse(V) depends upon V.cond().

Author

Paul Meagher PHP v3.0

Version

1.1

For an m-by-n matrix A with $m \ge n$, the LU decomposition is an m-by-n unit lower triangular matrix L, an n-by-n upper triangular matrix U, and a permutation vector piv of length m so that A(piv,:) = L*U. If m < n, then L is m-by-m and U is m-by-n.

The LU decomposition with pivoting always exists, even if the matrix is singular, so the constructor will never fail. The primary use of the LU decomposition is in the solution of square systems of simultaneous linear equations. This will fail if isNonsingular() returns false.

Author

Paul Meagher Bartosz Matosiuk Michael Bommarito

Version

1.1 PHP v3.0

For an m-by-n matrix A with $m \ge n$, the QR decomposition is an m-by-n orthogonal matrix Q and an n-by-n upper triangular matrix R so that A = Q*R.

The QR decomposition always exists, even if the matrix does not have full rank, so the constructor will never fail. The primary use of the QR decomposition is in the least squares solution of nonsquare systems of simultaneous linear equations. This will fail if isFullRank() returns false.

Author

Paul Meagher PHP v3.0

Version

1.1

For an m-by-n matrix A with m >= n, the singular value decomposition is an m-by-n orthogonal matrix U, an n-by-n diagonal matrix S, and an n-by-n orthogonal matrix V so that A = U*S*V'.

The singular values, sigma[\$k] = S[\$k][\$k], are ordered so that sigma[0] >= sigma[1] >= ... >= sigma[n-1].

The singular value decompostion always exists, so the constructor will never fail. The matrix condition number and the effective numerical rank can be computed from this decomposition.

Author

Paul Meagher PHP v3.0

Version

1.1

Error handling

Author

Michael Bommarito

Version

01292005

Pythagorean Theorem:

```
a = 3 b = 4 r = sqrt(square(a) + square(b)) r = 5
```

 $r = sqrt(a^2 + b^2)$ without under/overflow.

4.2 PHPExcel Namespace Reference

4.2.1 Detailed Description

Copyright

Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel) http://www.⇔ gnu.org/licenses/old-licenses/lgpl-2.1.txt LGPL

Version

1.7.9, 2013-06-02

Copyright

Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel)

4.3 PHPExcel_CachedObjectStorage Namespace Reference

4.3.1 Detailed Description

Copyright

Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel) http://www.⇔gnu.org/licenses/old-licenses/lgpl-2.1.txt LGPL

Version

1.7.9, 2013-06-02

Copyright

Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel)

4.4 PHPExcel_Calculation Namespace Reference

4.4.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

4.5 PHPExcel_Cell Namespace Reference

4.5.1 Detailed Description

Copyright

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Version

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Copyright

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4.6 PHPExcel_Chart Namespace Reference

4.6.1 Detailed Description

Copyright

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Version

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Copyright

Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel)

4.7 PHPExcel_Chart_Renderer Namespace Reference

4.7.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

4.8 PHPExcel_Reader Namespace Reference

4.8.1 Detailed Description

Copyright

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Version

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Copyright

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4.9 PHPExcel_Reader_Excel2007 Namespace Reference

4.9.1 Detailed Description

Copyright

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Copyright

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4.10 PHPExcel_Reader_Excel5 Namespace Reference

4.10.1 Detailed Description

Copyright

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Version

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Copyright

4.11 PHPExcel_RichText Namespace Reference

4.11.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

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4.12 PHPExcel_Settings Namespace Reference

4.12.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

4.13 PHPExcel_Shared Namespace Reference

4.13.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

4.14 PHPExcel_Shared_Escher Namespace Reference

4.14.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

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4.15 PHPExcel_Shared_OLE Namespace Reference

4.15.1 Detailed Description

Copyright

 $\label{linear_constraint} \textbf{Copyright (c) 2006 - 2007 Christian Schmidt http://www.gnu.org/licenses/old-licenses/lgpl-2.} \\ \text{1.txt LGPL}$

Version

1.7.9, 2013-06-02

4.16 PHPExcel_Shared_Trend Namespace Reference

4.16.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

4.17 PHPExcel_Shared_ZipArchive Namespace Reference

4.17.1 Detailed Description

Copyright

```
Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel) http://www.⇔gnu.org/licenses/old-licenses/lgpl-2.1.txt LGPL
```

Version

1.7.9, 2013-06-02

Copyright

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4.18 PHPExcel_Style Namespace Reference

4.18.1 Detailed Description

Copyright

```
Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel) http://www.⇔gnu.org/licenses/old-licenses/lgpl-2.1.txt LGPL
```

Version

1.7.9, 2013-06-02

Copyright

```
Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel)
Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel) http://www.⇔
gnu.org/licenses/old-licenses/lgpl-2.1.txt LGPL
```

Version

1.4.5, 2007-08-23

4.19 PHPExcel_Worksheet Namespace Reference

4.19.1 Detailed Description

Copyright

```
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```

Version

1.7.9, 2013-06-02

Copyright

4.20 PHPExcel_Worksheet_Drawing Namespace Reference

4.20.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

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4.21 PHPExcel_Writer Namespace Reference

4.21.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

Copyright (c) 2006 - 2013 PHPExcel (http://www.codeplex.com/PHPExcel)

4.22 PHPExcel_Writer_2007 Namespace Reference

4.22.1 Detailed Description

Copyright

4.23 PHPExcel_Writer_CSV Namespace Reference

4.23.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

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4.24 PHPExcel_Writer_Excel2007 Namespace Reference

4.24.1 Detailed Description

Copyright

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Copyright

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4.25 PHPExcel_Writer_Excel5 Namespace Reference

4.25.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

4.26 PHPExcel_Writer_HTML Namespace Reference

4.26.1 Detailed Description

Copyright

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Version

1.7.9. 2013-06-02

Copyright

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4.27 PHPExcel_Writer_PDF Namespace Reference

4.27.1 Detailed Description

Copyright

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Version

1.7.9, 2013-06-02

Copyright

Chapter 5

Class Documentation

5.1 DBConnection Class Reference

Public Member Functions

- close ()
- getConnectionObject ()

5.1.1 Detailed Description

Class DBConnection

Connessione con il Database (tramite PDO)

5.1.2 Member Function Documentation

```
5.1.2.1 close()

DBConnection::close ( )

Chiude la connessione aperta

5.1.2.2 getConnectionObject()

DBConnection::getConnectionObject ( )

Ritorna la connessione aperta
```

Returns

{PDO} database resource object or NULL if there was an error

The documentation for this class was generated from the following file:

• resources/php/librerie/DBConnection.php

20 Class Documentation

5.2 DBInterface Class Reference

Public Member Functions

- executeQuery (\$sql, \$returnResult=true)
- select (\$conditions=array(), \$orderBy=null, \$columns=' *')
- insert (\$values)
- update (\$values, \$conditions)
- delete (\$conditions)

5.2.1 Detailed Description

Class DBQuery

Interfaccia principale alle entità del DataBase

5.2.2 Member Function Documentation

```
5.2.2.1 delete()
```

Interfaccia principale alla query di DELETE

Parameters

\$conditions

Returns

mixed

5.2.2.2 executeQuery()

```
DBInterface::executeQuery (
          $sql,
          $returnResult = true )
```

Interfaccia per esecuzione di query SQL già pronte

Parameters

| | \$sql | |
|------|----------------|--|
| bool | \$returnResult | |

Returns

mixed

5.2.2.3 insert()

Interfaccia principale alla query di INSERT

Parameters

```
$values
```

Returns

mixed

5.2.2.4 select()

```
DBInterface::select (
    $conditions = array(),
    $orderBy = null,
    $columns = '*')
```

Interfaccia principale alla query di SELECT

Parameters

| array | \$conditions | |
|--------|--------------|--|
| null | \$orderBy | |
| string | \$columns | |

Returns

mixed

22 Class Documentation

5.2.2.5 update()

Interfaccia principale alla query di UPDATE

Parameters

| \$values | |
|--------------|--|
| \$conditions | |

Returns

mixed

The documentation for this class was generated from the following file:

• resources/php/librerie/DBInterface.php

5.3 if Category Reference

5.3.1 Detailed Description

PHPExcel root directory PHPExcel_Calculation_Database

PHPExcel root directory PHPExcel_Calculation_DateTime

PHPExcel root directory PHPExcel_Calculation_Logical

PHPExcel root directory PHPExcel_Calculation_LookupRef

PHPExcel root directory PHPExcel_Calculation_MathTrig

PHPExcel root directory PHPExcel_Calculation_TextData

PHPExcel root directory PHPExcel_Calculation (Multiton)

PHPExcel root directory PHPExcel_Cell_AdvancedValueBinder

PHPExcel root directory PHPExcel_Cell_DefaultValueBinder

PHPExcel_root directory PHPExcel_IOFactory

PHPExcel_root directory PHPExcel_Reader_CSV

PHPExcel root directory PHPExcel_Reader_DefaultReadFilter

PHPExcel root directory PHPExcel_Reader_Excel2003XML

PHPExcel root directory PHPExcel_Reader_Excel2007

PHPExcel root directory PHPExcel_Reader_Excel5

This class uses http://sourceforge.net/projects/phpexcelreader/parseXL

PHPExcel root directory PHPExcel_Reader_Gnumeric

PHPExcel root directory PHPExcel_Reader_HTML

PHPExcel root directory PHPExcel Reader OOCalc

PHPExcel root directory PHPExcel_Reader_SYLK

PHPExcel Shared XMLWriter

PHPExcel root directory PHPExcel

The documentation for this category was generated from the following file:

• resources/external/PHPExcel 1.7.9/Classes/PHPExcel/Calculation/Database.php

5.4 PHPExcel_Settings Class Reference

Static Public Member Functions

- static setZipClass (\$zipClass)
- static getZipClass ()
- static getCacheStorageMethod ()
- static getCacheStorageClass ()
- static setCacheStorageMethod (\$method=PHPExcel_CachedObjectStorageFactory::cache_in_memory, \$arguments=array())
- static setLocale (\$locale='en_us')
- static setChartRenderer (\$libraryName, \$libraryBaseDir)
- static setChartRendererName (\$libraryName)
- static setChartRendererPath (\$libraryBaseDir)
- static getChartRendererName ()
- static getChartRendererPath ()
- static setPdfRenderer (\$libraryName, \$libraryBaseDir)
- static setPdfRendererName (\$libraryName)
- static setPdfRendererPath (\$libraryBaseDir)
- static getPdfRendererName ()
- static getPdfRendererPath ()

Public Attributes

- const PCLZIP = 'PHPExcel_Shared_ZipArchive'
- const CHART RENDERER JPGRAPH = 'jpgraph'
- const PDF_RENDERER_TCPDF = 'tcPDF'

5.4.1 Detailed Description

PHPExcel root directory

24 Class Documentation

5.4.2 Member Function Documentation

5.4.2.1 getCacheStorageClass()

```
static PHPExcel_Settings::getCacheStorageClass ( ) [static]
```

Return the name of the class that is currently being used for cell cacheing

Returns

string Name of the class currently being used for cacheing

5.4.2.2 getCacheStorageMethod()

```
static PHPExcel_Settings::getCacheStorageMethod ( ) [static]
```

Return the name of the method that is currently configured for cell cacheing

Returns

string Name of the cacheing method

5.4.2.3 getChartRendererName()

```
static PHPExcel_Settings::getChartRendererName ( ) [static]
```

Return the Chart Rendering Library that PHPExcel is currently configured to use (e.g. jpgraph)

Returns

string|NULL Internal reference name of the Chart Rendering Library that PHPExcel is currently configured to use e.g. PHPExcel Settings::CHART RENDERER JPGRAPH

5.4.2.4 getChartRendererPath()

```
static PHPExcel_Settings::getChartRendererPath ( ) [static]
```

Return the directory path to the Chart Rendering Library that PHPExcel is currently configured to use

Returns

string NULL Directory Path to the Chart Rendering Library that PHPExcel is currently configured to use

5.4.2.5 getPdfRendererName()

```
static PHPExcel_Settings::getPdfRendererName ( ) [static]
```

Return the PDF Rendering Library that PHPExcel is currently configured to use (e.g. dompdf)

Returns

string|NULL Internal reference name of the PDF Rendering Library that PHPExcel is currently configured to use e.g. PHPExcel_Settings::PDF_RENDERER_TCPDF, PHPExcel_Settings::PDF_RENDERER_DOMPDF or PHPExcel_Settings::PDF_RENDERER_MPDF

5.4.2.6 getPdfRendererPath()

```
static PHPExcel_Settings::getPdfRendererPath ( ) [static]
```

Return the directory path to the PDF Rendering Library that PHPExcel is currently configured to use

Returns

string NULL Directory Path to the PDF Rendering Library that PHPExcel is currently configured to use

5.4.2.7 getZipClass()

```
static PHPExcel_Settings::getZipClass ( ) [static]
```

Return the name of the Zip handler Class that PHPExcel is configured to use (PCLZip or ZipArchive) or Zip file management

Returns

string Name of the Zip handler Class that PHPExcel is configured to use for Zip file management e.g. PHP← Excel_Settings::PCLZip or PHPExcel_Settings::ZipArchive

5.4.2.8 setCacheStorageMethod()

Set the method that should be used for cell cacheing

26 Class Documentation

Parameters

| string | \$method | Name of the cacheing method |
|--------|-------------|--|
| array | \$arguments | Optional configuration arguments for the cacheing method |

Returns

boolean Success or failure

5.4.2.9 setChartRenderer()

Set details of the external library that PHPExcel should use for rendering charts

Parameters

| string | \$libraryName | Internal reference name of the library e.g. PHPExcel_Settings::CHART_RENDERER_JPGRAPH | |
|--------|------------------|--|--|
| string | \$libraryBaseDir | Directory path to the library's base folder | |

Returns

boolean Success or failure

5.4.2.10 setChartRendererName()

```
\begin{tabular}{ll} \tt static PHPExcel\_Settings::setChartRendererName ( & slibraryName ) & [static] \end{tabular}
```

Identify to PHPExcel the external library to use for rendering charts

Parameters

| string | \$libraryName | Internal reference name of the library e.g. |
|--------|---------------|---|
| | | PHPExcel_Settings::CHART_RENDERER_JPGRAPH |

Returns

boolean Success or failure

5.4.2.11 setChartRendererPath()

Tell PHPExcel where to find the external library to use for rendering charts

Parameters

| | string \$libraryBaseDir | Directory path to the library's base folder | |
|--|-------------------------|---|--|
|--|-------------------------|---|--|

Returns

boolean Success or failure

5.4.2.12 setLocale()

Set the locale code to use for formula translations and any special formatting

Parameters

| | string | \$locale | The locale code to use (e.g. "fr" or "pt_br" or "en_uk") |
|--|--------|----------|--|
|--|--------|----------|--|

Returns

boolean Success or failure

5.4.2.13 setPdfRenderer()

Set details of the external library that PHPExcel should use for rendering PDF files

Parameters

| string | \$libraryName | Internal reference name of the library e.g. PHPExcel_Settings::PDF_RENDERER_TCPDF, PHPExcel_Settings::PDF_RENDERER_DOMPDF or PHPExcel_Settings::PDF_RENDERER_MPDF |
|--------|------------------|--|
| string | \$libraryBaseDir | Directory path to the library's base folder |

28 Class Documentation

Returns

boolean Success or failure

5.4.2.14 setPdfRendererName()

Identify to PHPExcel the external library to use for rendering PDF files

Parameters

| string | \$libraryName | Internal reference name of the library e.g. |
|--------|---------------|---|
| | | PHPExcel_Settings::PDF_RENDERER_TCPDF, |
| | | PHPExcel_Settings::PDF_RENDERER_DOMPDF or |
| | | PHPExcel_Settings::PDF_RENDERER_MPDF |

Returns

boolean Success or failure

5.4.2.15 setPdfRendererPath()

Tell PHPExcel where to find the external library to use for rendering PDF files

Parameters

| tring <i>\$libraryBaseDir</i> | Directory path to the library's base folder |
|-------------------------------|---|
|-------------------------------|---|

Returns

boolean Success or failure

5.4.2.16 setZipClass()

Set the Zip handler Class that PHPExcel should use for Zip file management (PCLZip or ZipArchive)

Parameters

| string | \$zipClass | The Zip handler class that PHPExcel should use for Zip file management e.g. | |
|--------|------------|---|--|
| | | PHPExcel_Settings::PCLZip or PHPExcel_Settings::ZipArchive | |

Returns

boolean Success or failure

5.4.3 Member Data Documentation

5.4.3.1 CHART_RENDERER_JPGRAPH

```
const PHPExcel_Settings::CHART_RENDERER_JPGRAPH = 'jpgraph'
```

Optional Chart Rendering libraries

5.4.3.2 PCLZIP

```
const PHPExcel_Settings::PCLZIP = 'PHPExcel_Shared_ZipArchive'
```

constants Available Zip library classes

5.4.3.3 PDF_RENDERER_TCPDF

```
const PHPExcel_Settings::PDF_RENDERER_TCPDF = 'tcPDF'
```

Optional PDF Rendering libraries

The documentation for this class was generated from the following file:

• resources/external/PHPExcel_1.7.9/Classes/PHPExcel/Settings.php

5.5 PHPExcel_Shared_JAMA_Matrix Class Reference

Public Member Functions

- __construct ()
- getArray ()
- getRowDimension ()
- getColumnDimension ()
- get (\$i=null, \$j=null)
- getMatrix ()
- checkMatrixDimensions (\$B=null)
- set (\$i=null, \$j=null, \$c=null)
- identity (\$m=null, \$n=null)
- diagonal (\$m=null, \$n=null, \$c=1)
- getMatrixByRow (\$i0=null, \$iF=null)
- getMatrixByCol (\$j0=null, \$jF=null)
- transpose ()
- trace ()
- uminus ()
- plus ()
- plusEquals ()
- minus ()
- minusEquals ()
- arrayTimes ()
- arrayTimesEquals ()
- arrayRightDivide ()
- arrayRightDivideEquals ()
- arrayLeftDivide ()
- arrayLeftDivideEquals ()
- times ()
- power ()
- · concat ()
- solve (\$B)
- inverse ()
- det ()

5.5.1 Detailed Description

PHPExcel root directory

5.5.2 Constructor & Destructor Documentation

```
5.5.2.1 __construct()
PHPExcel_Shared_JAMA_Matrix::__construct ( )
```

Polymorphic constructor

As PHP has no support for polymorphic constructors, we hack our own sort of polymorphism using func_num_args, func_get_arg, and gettype. In essence, we're just implementing a simple RTTI filter and calling the appropriate constructor.

5.5.3 Member Function Documentation

5.5.3.1 arrayLeftDivide()

```
PHPExcel_Shared_JAMA_Matrix::arrayLeftDivide ( )
```

arrayLeftDivide

Element-by-element Left division A / B

Parameters

| Matrix | \$B | Matrix B |
|--------|-----|----------|
| | | |

Returns

Matrix Division result

5.5.3.2 arrayLeftDivideEquals()

```
PHPExcel_Shared_JAMA_Matrix::arrayLeftDivideEquals ( )
```

array Left Divide Equals

Element-by-element Left division Aij = Aij / Bij

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|

Returns

Matrix Matrix Aij

5.5.3.3 arrayRightDivide()

```
PHPExcel_Shared_JAMA_Matrix::arrayRightDivide ( )
```

array Right Divide

Element-by-element right division A / B

| D | | | | | |
|----------|----|---|---|----|----|
| Pа | ra | m | ല | aı | r۹ |

| Matrix \$ | B Matrix B |
|-----------|--------------|
|-----------|--------------|

Returns

Matrix Division result

5.5.3.4 arrayRightDivideEquals()

```
PHPExcel_Shared_JAMA_Matrix::arrayRightDivideEquals ( )
```

arrayRightDivideEquals

Element-by-element right division Aij = Aij / Bij

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|
|-------|-----|--------------|

Returns

Matrix Matrix Aij

5.5.3.5 arrayTimes()

```
PHPExcel_Shared_JAMA_Matrix::arrayTimes ( )
```

arrayTimes

Element-by-element multiplication Cij = Aij * Bij

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|

Returns

Matrix Matrix Cij

5.5.3.6 arrayTimesEquals()

```
{\tt PHPExcel\_Shared\_JAMA\_Matrix::} array {\tt TimesEquals} \ \ (\ )
```

arrayTimesEquals

Element-by-element multiplication Aij = Aij * Bij

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|
|-------|-----|--------------|

Returns

Matrix Matrix Aij

5.5.3.7 checkMatrixDimensions()

```
PHPExcel_Shared_JAMA_Matrix::checkMatrixDimensions ( $SB = null \ )
```

checkMatrixDimensions

Is matrix B the same size?

Parameters

| Matrix | \$B | Matrix B |
|--------|-----|----------|
|--------|-----|----------|

Returns

boolean

5.5.3.8 concat()

```
PHPExcel_Shared_JAMA_Matrix::concat ( )
```

concat

A = A & B

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|
|-------|-----|--------------|

Returns

Matrix Sum

5.5.3.9 det()

```
PHPExcel_Shared_JAMA_Matrix::det ( )
```

det

Calculate determinant

Returns

float Determinant

5.5.3.10 diagonal()

diagonal

Generate a diagonal matrix

Parameters

| int | \$m | Row dimension |
|-------|-----|------------------|
| int | \$n | Column dimension |
| mixed | \$c | Diagonal value |

Returns

Matrix Diagonal matrix

5.5.3.11 get()

get

Get the i,j-th element of the matrix.

Parameters

| int | \$i | Row position |
|-----|-------------|-----------------|
| int | \$ <i>j</i> | Column position |

Returns

mixed Element (int/float/double)

5.5.3.12 getArray()

```
PHPExcel_Shared_JAMA_Matrix::getArray ( )
```

getArray

Returns

array Matrix array

5.5.3.13 getColumnDimension()

```
PHPExcel_Shared_JAMA_Matrix::getColumnDimension ( )
```

get Column Dimension

Returns

int Column dimension

5.5.3.14 getMatrix()

```
PHPExcel_Shared_JAMA_Matrix::getMatrix ( )
```

getMatrix

Get a submatrix

Parameters

| int | \$i0 | Initial row index |
|-----|------|----------------------|
| int | \$iF | Final row index |
| int | \$j0 | Initial column index |
| int | ₽iF | Final column index |

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Returns

Matrix Submatrix

5.5.3.15 getMatrixByCol()

getMatrixByCol

Get a submatrix by column index/range

Parameters

| int | \$i0 | Initial column index |
|-----|------|----------------------|
| int | \$iF | Final column index |

Returns

Matrix Submatrix

5.5.3.16 getMatrixByRow()

getMatrixByRow

Get a submatrix by row index/range

Parameters

| int | \$i0 | Initial row index |
|-----|------|-------------------|
| int | \$iF | Final row index |

Returns

Matrix Submatrix

5.5.3.17 getRowDimension()

```
PHPExcel_Shared_JAMA_Matrix::getRowDimension ( )
```

getRowDimension

Returns

int Row dimension

5.5.3.18 identity()

identity

Generate an identity matrix.

Parameters

| int | \$m | Row dimension |
|-----|-----|------------------|
| int | \$n | Column dimension |

Returns

Matrix Identity matrix

5.5.3.19 inverse()

```
PHPExcel_Shared_JAMA_Matrix::inverse ( )
```

Matrix inverse or pseudoinverse.

Returns

Matrix ... Inverse(A) if A is square, pseudoinverse otherwise.

5.5.3.20 minus()

```
PHPExcel_Shared_JAMA_Matrix::minus ( )
```

minus

A - B

| - | | | | | |
|----|----|---|----|-----|----|
| Pa | ra | m | eı | re. | rs |

| mixed | \$B | Matrix/Array | |
|-------|-----|--------------|--|
|-------|-----|--------------|--|

Returns

Matrix Sum

5.5.3.21 minusEquals()

```
PHPExcel_Shared_JAMA_Matrix::minusEquals ( )
```

 ${\it minus} {\it Equals}$

A = A - B

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|
|-------|-----|--------------|

Returns

Matrix Sum

5.5.3.22 plus()

```
PHPExcel_Shared_JAMA_Matrix::plus ( )
```

plus

A + B

Parameters

| mixed | \$B | Matrix/Array |
|----------|-----|--------------|
| 11117100 | Ψυ | i waa in ay |

Returns

Matrix Sum

5.5.3.23 plusEquals()

```
{\tt PHPExcel\_Shared\_JAMA\_Matrix::plusEquals} \ \ (\ \ )
```

plusEquals

A = A + B

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|
|-------|-----|--------------|

Returns

Matrix Sum

5.5.3.24 power()

```
PHPExcel_Shared_JAMA_Matrix::power ( )
```

power

 $A = A \wedge B$

Parameters

| mixed | \$B | Matrix/Array |
|-------|-----|--------------|
|-------|-----|--------------|

Returns

Matrix Sum

5.5.3.25 set()

```
PHPExcel_Shared_JAMA_Matrix::set (
    $i = null,
    $j = null,
    $c = null )
```

set

Set the i,j-th element of the matrix.

Parameters

| int | \$i | Row position |
|----------------------|-------------|------------------------|
| int Conservated b | <i>\$j</i> | Column position |
| mixed | \$ <i>C</i> | Int/float/double value |

Returns

mixed Element (int/float/double)

5.5.3.26 solve()

```
PHPExcel_Shared_JAMA_Matrix::solve ( $B$ )
```

Solve A*X = B.

Parameters

| Matrix \$B Right hand side | Matrix |
|----------------------------|--------|
|----------------------------|--------|

Returns

Matrix ... Solution if A is square, least squares solution otherwise

5.5.3.27 times()

```
PHPExcel_Shared_JAMA_Matrix::times ( )
```

times

Matrix multiplication

Parameters

| mixed \$n | Matrix/Array/Scalar |
|-----------|---------------------|
|-----------|---------------------|

Returns

Matrix Product

5.5.3.28 trace()

```
PHPExcel_Shared_JAMA_Matrix::trace ( )
```

trace

Sum of diagonal elements

Returns

float Sum of diagonal elements

5.5.3.29 transpose() PHPExcel_Shared_JAMA_Matrix::transpose () transpose Tranpose matrix Returns Matrix Transposed matrix

5.5.3.30 uminus()

```
PHPExcel_Shared_JAMA_Matrix::uminus ( )
```

uminus

Unary minus matrix -A

Returns

Matrix Unary minus matrix

The documentation for this class was generated from the following file:

• resources/external/PHPExcel_1.7.9/Classes/PHPExcel/Shared/JAMA/Matrix.php

Index

| construct | PHPExcel_Settings, 24 |
|---------------------------------|---------------------------------|
| PHPExcel_Shared_JAMA_Matrix, 30 | getChartRendererName |
| | PHPExcel_Settings, 24 |
| arrayLeftDivide | getChartRendererPath |
| PHPExcel_Shared_JAMA_Matrix, 31 | PHPExcel_Settings, 24 |
| arrayLeftDivideEquals | getColumnDimension |
| PHPExcel_Shared_JAMA_Matrix, 31 | PHPExcel_Shared_JAMA_Matrix, 35 |
| arrayRightDivide | getConnectionObject |
| PHPExcel_Shared_JAMA_Matrix, 31 | DBConnection, 19 |
| arrayRightDivideEquals | getMatrix |
| PHPExcel_Shared_JAMA_Matrix, 32 | PHPExcel_Shared_JAMA_Matrix, 35 |
| arrayTimes | getMatrixByCol |
| PHPExcel_Shared_JAMA_Matrix, 32 | PHPExcel_Shared_JAMA_Matrix, 36 |
| arrayTimesEquals | getMatrixByRow |
| PHPExcel_Shared_JAMA_Matrix, 32 | PHPExcel_Shared_JAMA_Matrix, 36 |
| , | |
| CHART_RENDERER_JPGRAPH | getPdfRendererName |
| PHPExcel_Settings, 29 | PHPExcel_Settings, 24 |
| checkMatrixDimensions | getPdfRendererPath |
| PHPExcel_Shared_JAMA_Matrix, 33 | PHPExcel_Settings, 25 |
| close | getRowDimension |
| DBConnection, 19 | PHPExcel_Shared_JAMA_Matrix, 36 |
| concat | getZipClass |
| PHPExcel Shared JAMA Matrix, 33 | PHPExcel_Settings, 25 |
| , | |
| DBConnection, 19 | identity |
| close, 19 | PHPExcel_Shared_JAMA_Matrix, 37 |
| getConnectionObject, 19 | if, 22 |
| DBInterface, 20 | insert |
| delete, 20 | DBInterface, 21 |
| executeQuery, 20 | inverse |
| insert, 21 | PHPExcel_Shared_JAMA_Matrix, 37 |
| select, 21 | = |
| update, 21 | JAMA, 7 |
| delete | |
| DBInterface, 20 | minus |
| det | PHPExcel_Shared_JAMA_Matrix, 37 |
| PHPExcel_Shared_JAMA_Matrix, 34 | minusEquals |
| diagonal | PHPExcel_Shared_JAMA_Matrix, 38 |
| PHPExcel Shared JAMA Matrix, 34 | DOI 710 |
| | PCLZIP |
| executeQuery | PHPExcel_Settings, 29 |
| DBInterface, 20 | PDF_RENDERER_TCPDF |
| | PHPExcel_Settings, 29 |
| get | PHPExcel, 9 |
| PHPExcel_Shared_JAMA_Matrix, 34 | PHPExcel_CachedObjectStorage, 9 |
| getArray | PHPExcel_Calculation, 9 |
| PHPExcel_Shared_JAMA_Matrix, 35 | PHPExcel_Cell, 10 |
| getCacheStorageClass | PHPExcel_Chart, 10 |
| PHPExcel_Settings, 24 | PHPExcel_Chart_Renderer, 10 |
| getCacheStorageMethod | PHPExcel_Reader, 11 |
| | |

44 INDEX

| Excel_Shared_Trend, 13 Excel_Shared_ZipArchive, 14 Excel_Style, 14 Excel_Worksheet, 14 Excel_Worksheet_Drawing, 15 Excel_Writer, 15 Excel_Writer_2007, 15 Excel_Writer_CSV, 16 |
|---|
| Excel_Writer_Excel2007, 16 Excel_Writer_Excel5, 16 Excel_Writer_HTML, 17 Excel_Writer_PDF, 17 PHPExcel_Shared_JAMA_Matrix, 38 Equals PHPExcel_Shared_JAMA_Matrix, 38 er PHPExcel_Shared_JAMA_Matrix, 39 et DBInterface, 21 |
| PHPExcel_Shared_JAMA_Matrix, 39 acheStorageMethod PHPExcel_Settings, 25 |
| nartRenderer PHPExcel_Settings, 26 nartRendererName PHPExcel_Settings, 26 nartRendererPath PHPExcel_Settings, 26 ncale PHPExcel_Settings, 27 dfRenderer PHPExcel_Settings, 27 dfRendererName PHPExcel_Settings, 28 dfRendererPath PHPExcel_Settings, 28 dfRendererPath PHPExcel_Settings, 28 pClass PHPExcel_Settings, 28 PHPExcel_Settings, 28 |
| PHPExcel_Shared_JAMA_Matrix, 40 PHPExcel_Shared_JAMA_Matrix, 40 pose PHPExcel_Shared_JAMA_Matrix, 40 us PHPExcel_Shared_JAMA_Matrix, 41 te DBInterface, 21 |
|) |